

Sessions

Opening Session

Moderator: Rick Donnelly, Parsons Brinckerhoff Quade & Douglas, Inc.

21st Century Issues for Transportation Planners <i>Joseph W. Guyton, HNTB Corporation</i>	1
Prescribing the Future, Not Predicting the Future: Are Our Planning Methods Up to the Challenge? <i>Steven E. Polzin, University of South Florida</i>	11

Travel Models I

Moderator: Paul Hershkowitz, Michigan Department of Transportation

Time-of-Day Stratification and its Impacts on Traffic Assignment and Vehicle Emission Estimates <i>Li-Yang Feng, Denver Regional Council of Governments</i>	23
The Tampa Bay Regional Transportation Analysis Phase II—Bridging the Development of Local Long Range Transportation Plans and a Regional Transportation Strategy <i>Daniel Lamb, Florida Department of Transportation; and Wade L. White, Gannett Fleming, Inc.</i>	24
Highway Network Validation Using Enhanced Area Types and Facility Types to Integrate 1994 HCM Capacities: the FSUTMS HNET Procedural Enhancements Study <i>Robert G. Schiffer, Daniel J. Beaty, and Wiatt F. Bowers, Post, Buckley, Schuh, and Jernigan, Inc.</i>	25
Alternative Structures for a Vehicle Availability Model for the Philadelphia Region <i>Earl R. Ruiter, Cambridge Systematics</i>	26
Comparison of Several Traffic Assignment Options <i>William W. Mann, Bahram Jamei, and Mazen Dawoud, Virginia Department of Transportation</i>	27

Transportation Planning Data I

Moderator: Michael Sexton, Wilbur Smith & Associates

Transportation Data Quality: What It Means & How to Get It <i>Ken Cervenka, North Central Texas Council of Governments</i>	28
Activity-Based vs. Location-Based Household Travel Surveys— A Comparison of Two Recent Pretests Conducted in the New York Metropolitan Area <i>Kuo-Ann Chiao, New York Metropolitan Council</i>	34
Detailed Forecasts for a Freeway Operations Study—Integrating Video Survey Data With a Regional Model <i>Phillip S. Shapiro, BMI</i>	35

Case Studies in the Application of Adjusted Census Data for Planning Projects <i>Victor Siaurusaitis and Larry Saben, COMSIS Corporation</i>	36
Regional Level of Service Analysis Using GIS <i>James G. Douglas, Parsons Brinckerhoff Quade & Douglas, Inc.</i>	46
Transportation Planning Process I	
<i>Moderator: Adiele Nwankwo, Southeast Michigan Council of Government</i>	
Standardization of Life-Cycle Cost Analysis in Florida <i>Terrel Shaw and Greg Alford, Reynolds, Smith and Hills, Inc.; and Gary Sokolow and Doug McLeod, Florida Department of Transportation.....</i>	47
Current Practices in the Use of Multimodal Service Evaluation Standards at Public Transit Agencies <i>Victoria Perk and Dennis P. Hinebaugh, University of South Florida</i>	48
Accessibility by Design: Real-World Examples of Bus Stop Design <i>Dennis G. Perkinson, Texas A&M University.....</i>	49
Florida Five Year Statewide Transit Development Concepts: A Policy Driven Planning Approach <i>Steven E. Polzin, Ronald Sheck, and Mitch York, University of South Florida; and Tara Bartee, Florida Department of Transportation</i>	50
Examining Transit Services in the Detroit Area: A Spatial Perspective <i>Adiele Nwankwo and Gwo-Wei Torng, Southeast Michigan Council of Governments</i>	61
Travel Demand Management	
<i>Moderator: Charlie Howard, Washington Department of Transportation</i>	
Planning Lee County's Congestion Pricing Program <i>Mark Burris, University of South Florida; and Chris Swenson, Lee County Department of Transportation.....</i>	62
Findings from the Evaluation of 36 LACMTA TDM Demonstration Projects <i>Mark Sillings, COMSIS Corporation; Cynthia Pansing, Transportation Consultant; and Sina Zarifi, Los Angeles County Metropolitan Transportation Authority.....</i>	71
Travel Models II	
<i>Moderator: Bill Woodford, KMPG Peat Marwick</i>	
The (First Generation) Michigan Statewide Truck Travel Forecasting Model <i>Rick Donnelly, Parsons Brinckerhoff Quade & Douglas, Inc.</i>	72
An Integrated Transportation Land Use Modeling System for Indiana <i>Andrew Ying-Ming Yen, THI Consultants; and Jon D. Fricker, Purdue University.....</i>	73
The SMART Model: A New Tool for Statewide Planning, Programming and Air Quality Analysis <i>William R. Loudon, John L. Henneman, and Mark E. Roskin, COMSIS Corporation</i>	79
Review of Land Use Models: Theory and Application	

<i>Kazem Oryani, URS Greiner, Inc.; and Britton Harris, University of Pennsylvania</i>	80
Socioeconomic Forecasting Model for the Tri-County Regional Planning Commission <i>Susan C. Hendricks, KJS Associates, Inc.; Patrick J. Costinett, Parsons Brinckerhoff, Inc.; Maren L. Outwater, Cambridge Systematics; Paul T. Hamilton, Tri-County Regional Planning Commission; and Paul Hershkowitz, Michigan Department of Transportation</i>	92
Intermodal & Freight Transportation Planning	
<i>Moderator: Russ Capelle, Jr., Central Transportation Planning Staff</i>	
The U.S.-Canadian Trade Flow Analysis Project: Summary of Work, Findings, and Recommendations <i>Ken Kinney and Rick Donnelly, Parsons Brinckerhoff Quade and Douglas, Inc.; and Connie Morrison, Michigan Department of Transportation</i>	103
Guidelines for Multimodal Corridor Capacity Analysis <i>William A. Hyman and Roemer M. Alfelor, Cambridge Systematics, Inc.; and Paul O. Roberts, Transmode Consultants, Inc.</i>	104
Practical Methods for Freight Transportation Planning in Metropolitan Areas <i>Deborah Matherly, COMSIS Corporation</i>	105
A Prioritization System for Multimodal and Intermodal Planning <i>Lee Merkhofer, Applied Decision Analysis, Inc.; and Marcy Schwartz and Eric Rothstein, CH2M HILL</i>	106
Case Studies in Intermodalism: Planning Airport Access <i>Ronald Ratliff, Brian Reed, Terrel Shaw, and Chip Seymour, Reynolds, Smith and Hills, Inc.</i>	113
Intermodal Ground Access to Airports Planning Guide—A Good Start <i>Phillip S. Shapiro, BMI</i>	114
Transportation Planning Process II	
<i>Moderator: Joseph W. Guyton, HNTB Corporation.</i>	
A New Tool for Use of Benefit-Cost Analysis in Evaluating Transportation Alternatives <i>Patrick DeCorla-Souza, Michael Culp, and James Hunt, Federal Highway Administration; and Harry Cohen and Dan Haling, Cambridge Systematics, Inc.</i>	122
Analytical Methods to Support Performance-Based Transportation Planning <i>Steven M. Pickrell and Vassilios Alexiadis, Cambridge Systematics, Inc.</i>	133
Variations in Predicted Employment-related Tripmaking Caused by Alternate Systems of Job Classification <i>Edward Limoges, Southeast Michigan Council of Governments</i>	134
Process for Developing Consistent Revenue Forecasts for Use by MPO's <i>Dale W. Spitz, Texas Department of Transportation</i>	141

The Development of Financial Plans for Regional Transportation Plans—Methods, Data, and Issues <i>Christopher R. Mann, Kevin Andrew Johnson, and Jeffrey J. Tumidanski, Southeast Michigan Council of Governments</i>	142
---	-----

Travel Models III

Moderator: Patrick J. Costinett, Parsons Brinckerhoff Quade & Douglas, Inc.

Adaptable Assignment <i>William G. Allen, Jr., Transportation Consultant</i>	154
Methods for Estimating Non-Motorized Travel to Meet the Needs of MIS <i>Mark Roskin and Victor Siaurusaitis, COMSIS Corporation</i>	162
Modeling Non-Motorized Travel in the Philadelphia Area <i>Thomas F. Rossi and Weili Chen, Cambridge Systematics; and W. Thomas Walker, Delaware Valley Regional Planning Commission</i>	163
Making Do With Less: Calibrating a True Travel Demand Model Without Traditional Survey Data <i>Steve Ruegg, Parsons Transportation Group</i>	164
Quantifying Special Generator Ridership in Transit Analyses <i>David L. Kurth, Barton-Aschman Associates, Inc.; Bill Van Meter and Smith Myung, Regional Transportation District; and Mark C. Shaefer, De Leuw, Cather & Company</i>	174
The Community Options Model: Using Artificial Intelligence for Transportation Planning and Community Decision Making <i>Daniel R. Talhelm, Resource Econometrics, Inc.; and Aarne H. Froborm, Jr., Michigan Department of Transportation</i>	183

Transportation Planning Data II

Moderator: Jerry Faris, Transportation Support Group, Inc.

A Comparison of Travel Survey Methodologies <i>Madhuri S. Korimilli and Ram M. Pendyala, University of South Florida</i>	196
Analysis of Discrete Stated Responses to Parking Pricing Based Transportation Control Measures <i>Arun K. Kuppam and Ram M. Pendyala, University of South Florida</i>	197
Land-Based Classification Standards Update <i>Jerry Everett, Federal Highway Administration</i>	208
Analysis of Stated Preference Survey Data for River-Crossing Travel Behavior in the Portland/Vancouver Metropolitan Area <i>Shinwon Kim, Southwest Washington Regional Transportation Council</i>	209
Does More Information Mean Better Rates? Trip Generation Rates for Selected Traffic Generators <i>Dawn McKinstry and Camille Thomason, Parsons Brinckerhoff Quade & Douglas, Inc.</i>	223

Major Investment Studies

Moderator: Montie Wade, Texas Transportation Institute

Presentation of Comparative Data for Transportation Planning Studies <i>Joseph W. Guyton, HNTB Corporation</i>	224
MIS Evaluation Framework—A Comparative Analysis Presentation of Comparative Data for Transportation Planning Studies <i>Christopher B. Gay and Srinivas Chennamaraja, BMI; and Lawrence Marcus, Metropolitan Washington Council of Governments</i>	234
Symptoms, Diagnoses, and Prescriptions: Evaluating and Improving the Performance of the San Francisco Bay Area's Arterial Roadway Network <i>Peter Zabierek and Steven M. Pickrell, Cambridge Systematics, Inc.</i>	235
MIS Case Study: I-94 Rehabilitation Project—Detroit, Michigan <i>Gerald H. Martin and Paul Hershkowitz, Michigan Department of Transportation; James A. Mauer, Parsons Brinckerhoff Quade & Douglas, Inc.; Janice Frazier, Jay Gregory and Associates, Inc.; and Charles Dulic, HNTB Michigan</i>	236
Modeling Procedures for Conducting Multimodal Major Investment Studies <i>Richard S. Marshment, University of Oklahoma</i>	245

Travel Models IV

Moderator: Scott Rutherford, University of Washington

Modeling Carpool & Transit Park-&-Ride Lots <i>William G. Allen, Jr., Transportation Consultant</i>	246
Short Term Model Improvement: Switching to Life Style Models of Trip Generation <i>Kenneth D. Kaltenbach and Sunil Saha, The Corradino Group; Shi-Chiang Li, Florida Department of Transportation; and Sridhar Ramasami, Carr Smith Corradino</i>	255
Tour Based Travel Demand Modeling in the U.S. <i>Thomas F. Rossi and Yoram Shiftan, Cambridge Systematics, Inc.</i>	256
Adding Car Occupancy to the Calgary Travel Demand Model Using Combined RP/SP Data <i>J.D. Hunt, University of Calgary</i>	257
Considering Telecommunications for All Trip Types in a Metropolitan Region's Transportation Model <i>John Niles, Global Telematics; and Ellen Williams, Ellen Williams & Associates</i>	258

Management Systems

Moderator: Montie Wade, Texas Transportation Institute

Integrating ISTEAM Management Systems into Oregon's Planning Process <i>Carolyn Gassaway, Oregon Department of Transportation</i>	259
An Integrated GIS Solution for Estimating Transportation Infrastructure Needs: A Florida Example	

<i>Gerry Harter, Dames & Moore, Inc.</i>	260
Congestion Management Planning Using the Transportation Analysis Database <i>Erin Vaca, and Stephen Decker, Cambridge Systematics, Inc.; and Jose Luis Moscovitch, San Francisco County Transportation Authority</i>	269
Michigan's Congestion Management System <i>Cynthia VonKlingler, Michigan Department of Transportation</i>	270
Congestion Management System/Mobility Management Process: The South Florida Experience Through the Eyes of the Broward County Metropolitan Planning Organization <i>Enrique R. Zelaya, Broward County, Florida</i>	280
The Balance of Decision Support: MDOT's Intermodal Management System <i>Marty Lontz, Michigan Department of Transportation</i>	281
Transportation and Land Use	
<i>Moderator: Dale Spitz, Texas Department of Transportation</i>	
Evaluating Traffic Impact Studies: A Recommended Practice for Michigan Communities <i>Bradley K. Strader, McKenna Associates; Pete LaMourie, Progressive Engineering; William Hartwig and Paul Hershkowitz, Michigan Department of Transporta- tion; and Paul Hamilton, Tri-County Regional Planning Commission</i>	296
Coordinating Land Use and Transportation Through Access Management <i>Kristine M. Williams, University of South Florida</i>	297
Urban Design, Urban Form, and Employee Travel Behavior <i>G. Bruce Douglas, III and John E. Evans, IV, Parsons Brinckerhoff Quade & Douglas, Inc.</i>	298
Safety Benefits of Access Spacing <i>Herbert S. Levinson, Transportation Consultant; and Jerry S. Gluck, Urbitran Associates, Inc.</i>	307
Access Management in Michigan: The Good, the Bad, and the Ugly <i>David Geiger, Michigan Department of Transportation; Jerry Gluck, Urbitran Associates; and Mark Wyckoff, Planning & Zoning Center</i>	313
Travel Models V	
<i>Moderator: Michelle Thomas, Federal Highway Administration</i>	
Large-Scale Traffic Microsimulation from an MPO Perspective <i>Ken Cervenka, North Central Texas Council of Governments</i>	314
An Integrated Traffic Simulation/GIS Platform for the Bruckner Expressway/Sheridan Expressway Interchange Improvement Project <i>Vassilios Papayannoulis and Jerry Gluck, Urbitran Associates</i>	321
Cost-Benefits of Exception Reporting Probe Vehicles for Network Surveillance that Support a Dynamic Route Guidance User Service	

<i>Allen T. Proper and Karl E. Wunderlich, Mitretek Systems</i>	322
Comparison of FHWA TRAF Simulation Programs and the Highway Capacity Software in Analyzing Impacts on Surface Streets and Freeways <i>Barbara Arens and Linda Powell, Parsons Brinckerhoff Michigan, Inc.</i>	323
Evaluations of Planning Issues Using Microscopic Simulation <i>Michel Van Aerde, Queens University</i>	324
Transportation Planning Process III	
<i>Moderator: Janet Oakley, National Association of Regional Councils</i>	
The Learning Curve for Successful Selection and Implementation for Enhancement Projects in Michigan <i>Paul W. McAllister, Michigan Department of Transportation</i>	325
Georgia's Rural Transportation Planning Tool: Something Old, Something New... <i>George Mazur and Wayne A. Sarasua, George Institute of Technology</i>	326
Business Planning in a Period of Change and Uncertainty at the Michigan Department of Transportation <i>Hyun-A Park and Lance Neumann, Cambridge Systematics; and Terry Gotts, Michigan Department of Transportation</i>	327
Transportation Service Center Analysis Using GIS Technology <i>Glenn Robinson, Stephanie McDonald, and Richard Nellet, Michigan Department of Transportation.....</i>	328
Transportation Planning Data III	
<i>Moderator: Art Sosslau, COMSIS Corporation</i>	
Automated Passenger Counter Pilot Test Project <i>Michael R. Baltes and Joel R. Rey, University of South Florida</i>	338
Using GPS for Measuring Household Travel in Private Vehicles <i>David P. Wagner, Battelle; Elaine Murakami, Federal Highway Administration; and Marc Guindon, LFUCG Division of Planning</i>	339
Reporting and Reducing Non-Response in Travel Surveys <i>Michele Zimowski and Roger Tourangeau, National Opinion Research Center.....</i>	349
The Development and Implementation of a Comprehensive Transportation GIS Network <i>Tina Roberts and Adiele Nwankwo, Southeast Michigan Council of Governments</i>	350
Public Involvement	
<i>Moderator: Jane Howard, Howard/Stein-Hudson, Associates</i>	
The Ambassador Bridge/Gateway Major Investment Study: The First Application in Michigan <i>Andrew J. Zeigler, Michigan Department of Transportation; and Joseph C. Corradino, The Corradino Group</i>	351
Distributing Congestion Management System Information Using the World Wide Web	

Jim Gallagher and Seth Asante, Central Transportation Planning Staff..... 361

I-96 Interchange Access Improvement Study: A Look at the Public Involvement
Process on an MIS

*Chuck Dulic, HNTB Michigan; Sue Gott, Johnson Johnson and Roy; Sheryl Soderholm-
Siddall, Southeast Michigan Council of Governments; David Geiger, Michigan
Department of Transportation; and Michael Craine, Livingston County Road
Commission 367*